What is claimed is:

A biosensor comprising 1.

a support substrate having/first and second ends,

electrodes positioned on the support substrate, the electrodes cooperating with one another to define electrode/arrays situated adjacent to the first end,

a spacer substrate posifioned on the support substrate, and

a cover positioned on the spacer substrate, the cover cooperating with the support substrate to define d channel including an inlet adjacent to the first end and opposite ends, each electrode array being positioned in the channel adjacent to one of the ends.

The biosensor of claim 1 wherein the cover and the support substrate 2. are formed to include a notch in general alignment with one another.

The biosensor of claim 2 wherein each notch is generally concave in 3. shape.

The biosensor of claim 1 wherein the spacer substrate includes a first 4. member extending between the ends.

The biosensor of claim 4 wherein the spacer substrate includes a 5. second member positioned between one end and the sample inlet and a third member positioned between the opposite end and the sample inlet.

The biosensor of claim 4 wherein the spacer substrate includes second and third members spaced-apart from the first member and the channel extends between the first, second, and third members.

The biosensor of claim 1 wherein the sample inlet is positioned to lie 7. between the electrode arrays.

A diosensor comprising: 8.

a support substrate,

a first electrode set positioned on the support substrate,

a second electrode set positioned on the support substrate, the first and second electrode sets being spaced-apart from one another, and

a cover extending across the first and second electrode sets, the cover cooperating with the support substrate to define a generally linear capillary channel having opposing first and second ends and an inlet positioned between the ends and between the first and second electrode sets.

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- 9. The biosens or of claim 8 further comprising a spacer substrate positioned between the support substrate and the cover.
- 10. The biosen or of claim 9 wherein the spacer substrate includes a first member extending between the ends for the channel.
- 11. The biosensor of claim 10 wherein the spacer substrate includes a second member positioned between one end and the inlet and a third member positioned between the apposite end and the inlet.
- 12. The biosensor of claim 10 wherein the spacer substrate includes second and third members spaced-apart from the first member and the channel extends between the first, second, and third members.
- 13. The biosensor of claim 8 wherein the cover and the support substrate are formed to include a notch in general alignment with one another.
- 14. The biosensor of claim 13 wherein each notch is generally concave in shape.
 - 15. The biosensor of claim 13 wherein the inlet intersects the notches.
- 16. A method of forming a biosensor, the method comprising the steps of: forming spaced-apart electrode arrays on a surface of a support substrate, placing a spacer substrate on the support substrate across the electrode arrays, removing a portion of the spacer substrate to expose the electrode arrays, placing a cover on the spacer substrate to define a capillary channel having opposite ends and extending across the electrode arrays, and

punching a notch through the support substrate, a portion of the spacer substrate, and the cover to form an inlet to the capillary channel, the inlet being positioned between the opposite ends.

- 17. The method of claim 16, wherein the punching step includes forming the inlet between the electrode arrays.
 - 18. The method of claim 16, wherein the removing step includes the step of forming a first member and a second/third member strip and the electrode arrays are positioned between the first member and the second/third member strip.
 - 19. The method of claim 18, wherein the punching step includes the step of separating the second/third member strip into a second member and a third member and the inlet extends between the second and third members.

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